

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim Listing:

1. (Currently Amended) A method for transmitting a data field of symbols comprising the steps of:
 - generating a first data field of symbols;
 - encoding said first data field producing a second data field having complex conjugates of the symbols of said first data field;
 - spreading said first and second data fields, wherein said first data field is spread using a first channelization code that is uniquely associated with a first antenna and said second data field is spread using a second channelization code, ~~each channelization code being~~ that is uniquely associated with ~~one of~~ a first and second ~~antennas~~ antenna; and
 - transmitting an RF signal including said first and second spread data fields over [[a]] the first and second antenna antennas.

2. (Original) The method of claim 1 further comprising the step of scrambling said first and second spread data fields by a scrambling code associated with said base station.

3. (Original) The method of claim 2 wherein the symbols of said first data field of symbols are grouped into a first and second sub-data field.

4. (Original) The method of claim 3, wherein the symbols of said second data field of symbols are grouped into a third and fourth sub-data field, wherein said third sub-data field is the negative complex conjugate of said second sub-data field and said fourth sub-data field is the complex conjugate of said first sub-data field.

5. (Currently Amended) A transmitter for transmitting a data field of symbols comprising:

a first and second antenna for transmitting said data field of symbols, wherein said data field includes a first data field;

an encoder for encoding said data field producing a second data field having complex conjugates of the symbols of said data field; and

a first ~~and second spreading~~ channelization device for receiving the data field including the first data field and spreading said first ~~and second~~ data fields field, wherein said first ~~spreading~~ channelization device spreads said first data field using a first channelization code that is uniquely associated with the first antenna; and ~~and said second spreading~~ device spreads said second data field using a second channelization code, each channelization code being uniquely associated with one of ~~said first and second antennas~~.

a second channelization device for receiving the second data field from the encoder and spreading said second data field using a second channelization code, the second channelization code being uniquely associated with the second antenna.

6. (Original) The transmitter of claim 5 wherein said transmitter further comprising a first and second scrambling device for scrambling said first and second spread data fields by a single scrambling code associated with said transmitter.

7. (Original) The transmitter of claim 6 wherein the symbols of said first data field of symbols are grouped into a first and second sub-data field.

8. (Original) The transmitter of claim 7, wherein the symbols of said second data field of symbols are grouped into a third and fourth sub-data field, said

third sub-data field being the negative complex conjugate of said second sub-data field and said fourth sub-data field being the complex conjugate of said first sub-data field.

9-12. (Canceled).

13. (Currently Amended) A method for transmitting a data field of symbols comprising the steps of:

generating a data field of symbols, wherein said data field includes a first data field;

spreading said first data field using a first channelization code producing a first spread data field, wherein the first channelization code is uniquely associated with a first antenna;

spreading said first data field using a second channelization code producing a second spread data field, wherein the second channelization code is uniquely associated with a second antenna each channelization code being uniquely associated with one of a first and second antennas; and

transmitting an RF signal including said first and second spread data fields over [[a]] the first and second antenna antennas.

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14. (Original) The method of claim 13 further comprising the steps of scrambling said first and second spread data fields by a scrambling code associated with said transmitter.

15. (Currently Amended) A transmitter for transmitting a data field of symbols comprising:

a first and second antenna for transmitting said data field of symbols; and
a first ~~and second spreading~~ channelization device for spreading said data field, wherein said first spreading channelization device spreads said data field using a first channelization code that is uniquely associated with the first antenna, producing a first spread data field; ~~and, and said second spreading device spreads said data field using a second channelization code, producing a second spread data field, each channelization code being uniquely associated with one of said first and second antennas.~~

a second channelization device for spreading said data field using a second channelization code that is uniquely associated with the second antenna, producing a second spread data field.

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16. (Original) The transmitter of claim 15 further comprising a first and second scrambling device for scrambling said first and second spread data fields by a single scrambling code associated with said transmitter.

17-18. (Canceled).